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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/587,599	08/02/2006	Akihiko Iguchi	MAT-8870US	7150
52473	7590	11/10/2008		
RATNERPRESTIA P.O. BOX 980 VALLEY FORGE, PA 19482			EXAMINER CHEN, SHIH CHAO	
			ART UNIT 2821	PAPER NUMBER
			MAIL DATE 11/10/2008	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/587,599	<b>Applicant(s)</b> IGUCHI ET AL.	
	<b>Examiner</b> Shih-Chao Chen	<b>Art Unit</b> 2821	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 02 August 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 August 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>8/2/06</u> .  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Information Disclosure Statement***

1. The information disclosure statement (IDS) submitted on 08/02/2006 has been considered by the examiner.

### ***Drawings***

2. The drawings were received on 08/02/2006. These drawings are accepted by the Examiner.

### ***Claim Rejections - 35 USC § 102***

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Guo et al. (U.S. Patent No. 6,734,825).

Regarding claim 1, Guo et al. teaches in figures 4-13 an antenna device comprising: a grounding board [312] having an edge; an antenna [400] provided on the grounding board, the antenna including a dielectric block [318] having a top surface, a bottom surface opposite to the top surface, and a side surface connected to the top surface and the bottom surface (See Figure 4), the top surface having an outer periphery, a radiator electrode [320] provided on the top surface, a short-circuit electrode [314] provided on the side surface, the short-circuit electrode having a first end and a second end, the first end of the short-circuit electrode being connected to the grounding board, the second end of the short-circuit electrode being connected to the radiator electrode, and a feeding electrode [316] provided on the side surface and connected to the radiator electrode, wherein the bottom surface of the dielectric block

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contacts the grounding board, wherein the outer periphery of the top surface of the dielectric block has a first side at which the top surface is connected with the side surface, wherein the radiator electrode includes a short-circuited end (See Figure 4) connected to the second end of the short circuit electrode, and a portion extending from the short-circuited end along the outer periphery of the top surface of the dielectric block, the portion of the radiator electrode having an open end (See Figure 4) located at the first side of the dielectric block, and wherein the side surface of the dielectric block is substantially flush with the edge of the grounding board.

Regarding claim 2, Guo et al. teaches in figures 4-13 the antenna device of claim 1, wherein a width of the open end of the radiator electrode [320] is greater than a width of the short-circuited end of the radiator electrode (See Figure 4).

Regarding claim 3, Guo et al. teaches in figures 4-13 the antenna device of claim 1, wherein the outer periphery of the top surface of the dielectric block [318] further has a second side opposite to the first side; and wherein the radiator electrode [320] further includes a first portion extending along the second side, and a second portion extending along the first side.

Regarding claim 4, Guo et al. teaches in figures 4-13 the antenna device of claim 3, wherein the outer periphery of the top surface of the dielectric block [318] further has a third side connected to the first side and the second side of the outer periphery, and a fourth side connected to the first side and the second side, the fourth side of the outer periphery being opposite to the third side of the outer periphery, wherein the radiator electrode [320] further includes a third portion extending from the short-circuited end

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along the third side, and a fourth portion extending along the fourth side, wherein the first portion extends from the third portion to the fourth portion; and wherein the second portion extends from the fourth portion (See Figure 4).

### ***Correspondence***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shih-Chao Chen whose telephone number is (571) 272-1819. The examiner can normally be reached on Monday-Thursday from 7 AM to 5:30 PM, Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas W. Owens can be reached on (571) 272-1662. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Shih-Chao Chen

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Primary Examiner  
Art Unit 2821

SXC

November 6, 2008

/Shih-Chao Chen/

Primary Examiner, Art Unit 2821